Outreach Education

Black Canyon of the Gunnison National Park Curecanti National Recreation Area

National Park Service



ve Earth"							
Name:							
What Comes From Rocks?							
y are made from rocks. That's right, fro t a check mark next to those that you have	•						
Coin money	Table salt						
Drinking glass	Plastic spoon						
Soda can	Scissors						
Chalk	Paint						
Lipstick	Shoe polish						
Blue jeans	Wooden spoon						
Metal baseball bat	Clock/watch						
Book	Plastic bag						
Nylons	Toothpaste						
Metal knife, fork, spoon	Airplane						
Products of Geology							
ngs come from rocks, categorize the proc	lucts into the following:						
Mineral Products	Rock Products						
	What Comes From Rocks? y are made from rocks. That's right, from the acheek mark next to those that you have to coin money Drinking glass Soda can Chalk Lipstick Blue jeans Metal baseball bat Book Nylons Metal knife, fork, spoon Products of Geology ags come from rocks, categorize the products.						

Can you think of other "Products of Geology"?

Outreach Education

Black Canyon of the Gunnison National Park Curecanti National Recreation Area

National Park Service



Grade 8, Pre-Visit Activity, "The Active Earth"

Name:					
-------	--	--	--	--	--

VOCABULARY

Deposition: The laying down of materials that may later form a rock; sedimentation

Deformation: Folding and faulting of rocks due to forces within the earth

Erosion: The process by which rock and soil are removed from any part of the Earth's surface; the effect of weathering

Weathering: The mechanical disintegration and chemical decomposition of rocks

Frost Wedging: The mechanism by which jointed rocks are pried apart by ice acting as a wedge

Rock Types

--Schist

Igneous Extrusivevolcanic brecciawelded tuff	Volcanic rocks that have solidified above the surface of the earth A rock composed of angular volcanic fragments The hot ash from a volcano welds together to form a very hard rock
Igneous Intrusivegranite	A body of magma that crystallizes within the earth's crust
SedimentaryMancos ShaleDakota SandstoneMorrison Formation	Rocks formed by the accumulation of layers of sand, silt, clay, and mud
MetamorphicGneiss	Rocks that form at depth within the crust through solid-state recrystallization of pre-existing rocks as a result of heat, pressure, and chemically active fluids

Outreach Education

Black Canyon of the Gunnison National Park Curecanti National Recreation Area

National Park Service



Grade 8, Post-Visit Activity, "The Active Earth"

	Name:
Instructions: Curecanti's rock layer and fill in the blanks.	layers are represented in the drawing below. Read the clue next to each
The quickly ar	formed when extremely hot volcanic ash cooled and tiny ash particles fused together.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	the West Elk Mountains and mud flows.
	Mancos shale is rock formed by soft mud that sank to the bottom of an ancient sea. It is an example of rock.
	Dakota is the remnants of beach sand on the edge o an ancient sea.
	Named after a Colorado town, this layer is famous for the dinosaur bones that fossilized in its stream sediments.
	Junction Creek Sandstone was deposited by
+ + +	This layer was deposited before life. It is called ——————————————————————————————————
+ + + + + + + + + + + + + + + + + + + +	Mark each layer with an I if it is igneous rock, M for metamorphic, or an S for sedimentary.

ago, before the breccia was exposed to erosional forces. what you think the Dillon Pinnacles looked like, 40 million years Using what you've learned about the geology of this area, draw

million years from now. Sketch what you think the Dillon Pinnacles will look like a

Education Outreach

Name:

Black Canyon of the Gunnison National Park Curecanti National Recreation Area

National Park Service



A Visit to the



Describe the Dillon Pinnacles to an artist, including colors, shapes, textures, etc.	Using what you have learned about geology, describe the Dillon Pinnacles to a scientist.
	Sketch the Dillon Pinnacles.